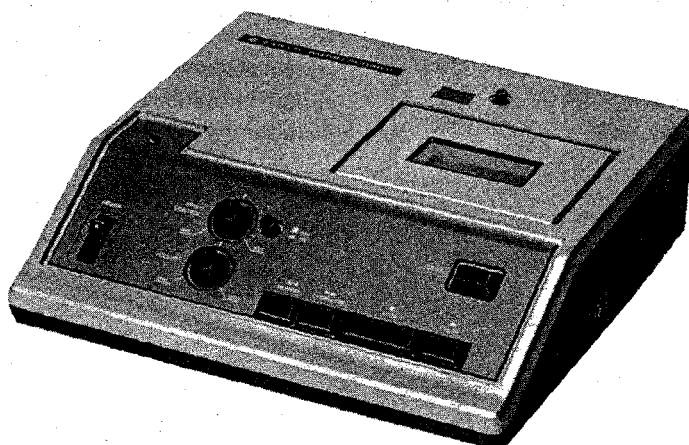




**SANYO  
MEMO-SCRIBER  
TRC 8010  
TRC 8010 Z  
SERVICE MANUAL**

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## SPECIFICATIONS

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| Tape speed                 | 1-7/8 ips. (4.75 cm/sec)                          |
| Rewind & Fast forward time | 1'25" (C-60)                                      |
| Frequency response         | 100 - 8,000 Hz                                    |
| Wow & Flutter              | 0.3% RMS                                          |
| Output                     | EARPHONE: 8 $\Omega$                              |
| Transistors                | 9                                                 |
| Diodes                     | 15                                                |
| Output power               | 500mW maximum                                     |
| Power source               | AC: 110 . 220 . 240V                              |
| Speaker                    | 2-3/4" x 1-3/4" P.D.S (70 x 45 mm)                |
| Dimension (Approx.)        | 3-3/16" x 9-1/2" x 11-3/4"<br>(80 x 240 x 300 mm) |
| Weight (Approx.)           | 8.3 lbs. (3.8 kg)                                 |

## MECHANICAL ADJUSTMENT

To measure the torque of the tape recorder, a torque gauge (Fig. 1) and a tension gauge are necessary. To use a tension gauge, make a hole in the side of the Cassette as shown in Fig. 2.

Be careful that the tape does not rub against the edge of the Cassette; these will make correct measurement impossible.

### 1. Take-up torque (measure with torque gauge)

|              |          |
|--------------|----------|
| Play         | 40 gr/cm |
| Fast forward | 60 gr/cm |
| Rewind       | 60 gr/cm |

### 2. Back tension (measure with tension gauge)

|              |            |
|--------------|------------|
| Play         | 2~15 gr/cm |
| Fast forward | 2~15 gr/cm |
| Rewind       | 2~15 gr/cm |

### 3. Tape tension

As shown in Fig. 3 cut off a length of tape. Tie one end to a thread connected to the tension gauge, and leave the other end hanging loose. Place the unit in PLAY mode and hold the tension gauge steady (do not move it to left or right).

When the tape stops, read the tension gauge. If this reading falls within the range of 50 - 200 gr. no adjustment is needed. If it does not fall within this range, adjust the pinch roller pressure. This is done by bending the hole position of the coil spring (141-2-8521T-66900).

Clean the pinch roller (with alcohol only) so that the tape will not slip.

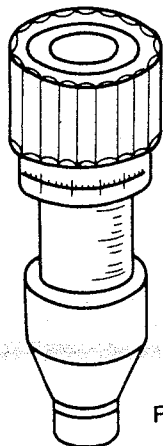


Fig. 1

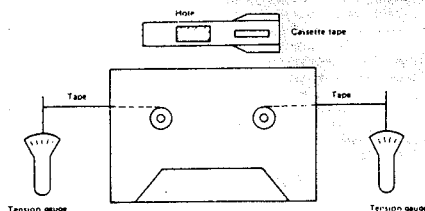


Fig. 2

## 4. Play Head Azimuth Adjustment

Maximum output and frequency response can be obtained only when the Playback head is correctly aligned for azimuth. Azimuth alignment refers the positioning of the head in respect to the tape which passes across it during playback. Since the head adjustment screw is set and sealed at the factory, adjustment should not be required unless the screw has been accidentally put out of adjustment in same manner.

If a Playback head becomes defective, it will be necessary to align the now head for correct azimuth after installation.

To do so, proceed as follows;

- Thread a pre-recorded test tape (cassette type) ( 7 KHz standard frequency tape) into the unit.
- Connect an AC VTVM to across the speaker voice coil terminals. To make this connection without removing the unit from the cabinet, connect an external ear-phone or a dummy load resistor (same impedance as that of the speaker voice coil) to the earphone jack.  
**Note:** Set the voltmeter on the 1.5 VAC scale.
- Depress the PLAY button and turn the volume control knob until maximum.
- Rotate the head adjustment screws clockwise or counterclockwise and continue this procedure until maximum output is obtained as indicated by the AC voltmeter.

## 5. Head Demagnetization

Magnetization of the head may result when the continuity of the head is measured with an ohmmeter. If it is necessary to measure head continuity, the head should be demagnetized after the continuity check. Head magnetization is evidenced by a high residual noise (a hissing and low popping sound) when a virgin or completely erased tape is played at a high volume level. The magnetization may be neutralized by use of a standard demagnetization tool. A piece of cellulose tape should be placed over the end of the tool to prevent metal-to-metal contact between the tool and the head. After demagnetization is complete, slowly remove the tool from the vicinity of the head before the current is turned off.

# PARTS LIST

| Part No.                | Description                             | Q'ty |
|-------------------------|-----------------------------------------|------|
| <b>PACKING</b>          |                                         |      |
| 141-6-132T-53500        | Individual Carton                       | 1    |
| 141-6-144T-14200        | Styrol Filler                           | 1    |
| 141-6-316T-60000        | Pad                                     | 1    |
|                         | Polyethylene Bag 350 x 450 mm, Set      | 1    |
|                         | Polyethylene bag 120 x 250 mm           | 1    |
|                         | Power Supply Cord                       | 1    |
| 141-6-411T-54600        | Instruction Booklet                     | 1    |
| 141-6-455T-01101        | Serial Number Plate                     | 1    |
|                         | Polyethylene Bag 200 x 300 mm           | 1    |
|                         | Printed Matter                          | 1    |
| 141-6-479T-09100        | Label                                   | 1    |
| 141-6-455T-00300        | Serial Number Label                     | 1    |
| 141-6-472T-05603        | Caution Label (TRC8010)                 | 1    |
| 141-6-472T-05602        | Caution Label (TRC8010Z)                | 1    |
| <b>CABINET</b>          |                                         |      |
| 141-0-111T-07700        | Cabinet Assembly                        | 1    |
| 141-2-161T-14101        | Push Button, Play F.Fwd Rew             | 3    |
| 141-2-161T-14201        | Push Button, Stop                       | 1    |
| 141-2-851T-62500        | Spring Coil, Slide                      | 4    |
| 141-2-731T-22001        | Slide                                   | 4    |
| 141-2-737T-02300        | Bracket, Slide                          | 1    |
| 141-2-161T-15500        | Push Button, Cassette Up                | 1    |
| 141-2-853T-31600        | Spring Plate, Cassette Up               | 1    |
| 141-2-852T-23200        | Spring Wire, Cassette Up                | 1    |
| 141-2-751T-54200        | Shaft, Cassette Up Lever                | 1    |
| 141-2-741T-53800        | Lever, Cassette Up                      | 1    |
| 141-2-741T-49800        | Lever, Top Lid Tab                      | 1    |
| 141-2-851T-62600        | Spring Coil, Lever                      | 1    |
|                         | Fiber Washer 3.2 x 12 x 1 mm            | 1    |
| 141-0-124T-02600        | Cassette Lid Assembly                   | 1    |
| 141-2-751T-46201        | Shaft, Cassette Lid Fulcrum             | 1    |
| 141-2-852T-21600        | Spring Wire                             | 2    |
| 141-2-751T-54200        | Shaft                                   | 1    |
| 141-0-125T-05491        | Bottom Lid Assembly                     | 1    |
|                         | Rubber Cushion 2 x 6 x 12 mm, SP Fixer  | 2    |
| 141-2-174T-81400        | Stand, Rubber                           | 2    |
| 141-0-163T-03900        | Rotary Knob Assembly, Speed Control     | 2    |
| <b>CHASSIS</b>          |                                         |      |
| 141-2-311T-12901        | Chassis                                 | 1    |
| 141-2-312T-10600        | Sub Chassis                             | 1    |
| 141-2-377T-13300        | Bracket, Sub Chassis to Amp P.C.B       | 1    |
| 141-2-361T-09600        | Bracket, VR Mtg.                        | 1    |
| 141-2-365T-25100        | Bracket, Lamp & Power Switch Mtg.       | 1    |
| 141-2-143T-57701        | Marking Plate (TRC8010)                 | 1    |
| 141-2-143T-57700        | Marking Plate (TRC8010Z)                | 1    |
| 141-2-367T-20200        | Bracket, Earphone Socket                | 1    |
| 141-2-367T-20300        | Bracket, Earphone Socket                | 1    |
| 141-2-161T-09402        | Push Button, Counter Knob               | 1    |
| 141-2-161T-15600        | Push Button, Speed Control ON/OFF       | 1    |
| 141-2-363T-02701        | Bracket, Mechanism Plunger Mtg.         | 1    |
|                         | Fiber Washer 3.5 x 10 x 2 mm, Mechanism | 1    |
|                         | Rubber Cushion 9 x 9 x 4 mm, VR         | 1    |
| 141-2-352T-10600        | Spacer, PL                              | 1    |
| 141-2-143T-46800        | Marking Plate, Voltage                  | 1    |
| 141-2-464T-11800        | Fixer, Power Supply Cord                | 1    |
|                         | (TRC8010Z & except Australian)          |      |
| 141-2-367T-21200        | Bracket, Power Select Socket            | 1    |
| <b>ELECTRICAL PARTS</b> |                                         |      |
| 4-251T-30700            | Power Transformer                       | 1    |
| 4-151T-10300            | Speaker 0.5W, 47 x 72 mm                | 1    |
| 4-235T-05100            | Socket, Earphone                        | 1    |
| 141-2-382T-00700        | Terminal Clip                           | 2    |
| 4-222T-28300            | Variable Resistor, Speed Control        | 1    |
|                         | 300 B                                   |      |
| 4-222T-13400            | Variable Resistor, Volume               | 1    |
|                         | 10 K A                                  |      |
| 4-235T-21900            | Socket, 5P                              | 1    |
| 4-235T-02601            | Socket, DIN 5P                          | 1    |

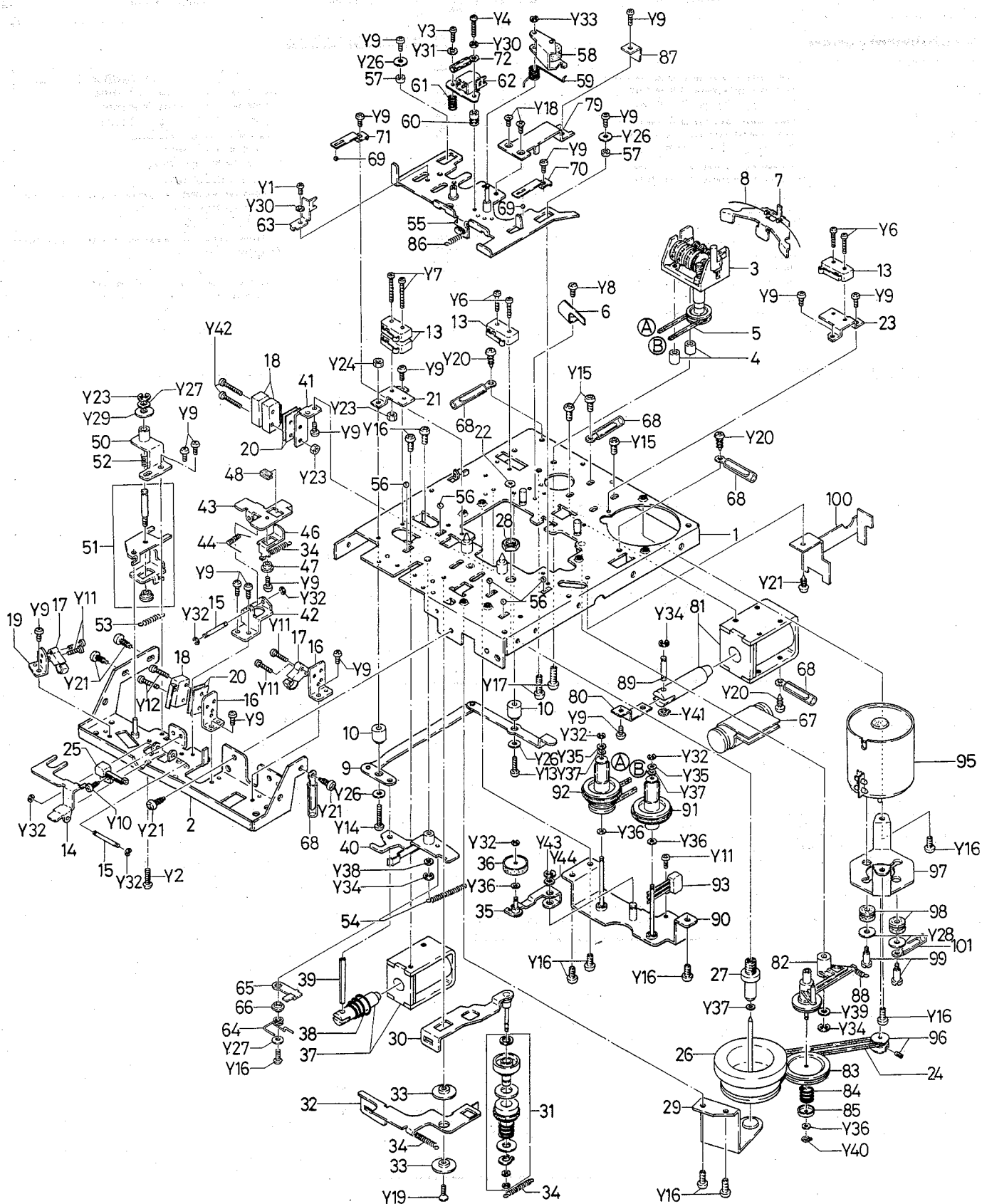
| Key No.                      | Part No.      | Description                               | Q'ty |
|------------------------------|---------------|-------------------------------------------|------|
| <b>ELECTRICAL PARTS</b>      |               |                                           |      |
|                              | 4-231T-15600  | Speed Control Switch                      | 1    |
|                              | 4-231T-09800  | Power Supply Switch                       | 1    |
|                              | 4-236T-03800  | Plug, Voltage Socket                      | 1    |
|                              | 4-235T-14600  | Socket, Voltage Select                    | 1    |
|                              | 4-243R-00100  | Power Supply Cord (TRC8010)               | 1    |
|                              | 4-243T-75401  | Power Supply Cord                         | 1    |
|                              |               | (TRC8010 Australian)                      |      |
|                              | 4-243T-75800  | Power Supply Cord (TRC8010Z)              | 1    |
|                              | 4-235R-11801  | Plug Adaptor, Siemense 2 Pin              | 1    |
|                              |               | (TRC8010 only)                            |      |
|                              | 4-235R-11802  | Plug Adaptor, England 2 Pin               | 1    |
|                              |               | (TRC8010 only)                            |      |
|                              | 4-236T-01000  | Plug, England 3 Pin                       | 1    |
|                              |               | (TRC8010 Australia only)                  |      |
| <b>AMP. P.C.B. ASSY</b>      |               |                                           |      |
|                              | 4-226T-476992 | Printed Circuit Board Assembly, AMP       | 1    |
|                              | 4-254T-11100  | Input Transformer                         | 1    |
|                              | 4-254T-09100  | Output Transformer                        | 1    |
| Q1                           |               | Transistor 2SC644 or 2SC858               | 1    |
| Q2                           |               | Transistor 2SC945 or 2SC828               | 1    |
| Q3,4                         |               | Transistor 2SC1383                        | 2    |
| D1                           |               | Diode MA26                                | 1    |
| <b>RESISTORS</b>             |               |                                           |      |
| R7                           |               | Carbon 3.9Ω ±10% 1/4W                     | 1    |
| R2                           |               | Carbon 6.8Ω ±10% 1/4W                     | 1    |
| R10                          |               | Carbon 8.2Ω ±10% 1/4W                     | 1    |
| R28                          |               | Carbon 27Ω ±10% 1/4W                      | 1    |
| R11                          |               | Carbon 33Ω ±10% 1/4W                      | 1    |
| R9,27                        |               | Carbon 560Ω ±10% 1/4W                     | 2    |
| R4                           |               | Carbon 1.8KΩ ±10% 1/4W                    | 1    |
| R8                           |               | Carbon 2.2KΩ ±10% 1/4W                    | 1    |
| R5                           |               | Carbon 5.6KΩ ±10% 1/4W                    | 1    |
| R3                           |               | Carbon 12KΩ ±10% 1/4W                     | 1    |
| R6                           |               | Carbon 56KΩ ±10% 1/4W                     | 1    |
| R1                           |               | Carbon 680KΩ ±10% 1/4W                    | 1    |
| <b>CAPACITORS</b>            |               |                                           |      |
| C4                           |               | Electrolytic 1μF 25WV                     | 1    |
| C1,5                         |               | Electrolytic 2.2μF 25WV                   | 2    |
| C2                           |               | Electrolytic 100μF 10WV 8φ                | 1    |
| C6                           |               | Electrolytic 330μF 10WV 10φ x 20          | 1    |
| C9                           |               | Electrolytic 470μF 16WV 13φ x 21          | 1    |
| C19,20,21                    |               | Electrolytic 470μF 50WV 16φ x 36          | 3    |
| C7,8                         |               | Mylar 0.01μF ±20% 50WV                    | 2    |
| C3                           |               | Ceramic 70p ±10% 50WV                     | 1    |
| C25                          |               | Ceramic 0.0022μF ±20% 50WV                | 1    |
| <b>MECHANISM P.C.B. ASSY</b> |               |                                           |      |
|                              | 4-226T-47799  | Printed Circuit Board Assembly, MECHANISM | 1    |
|                              | 4-232T-01803  | Relay, Auto Stop & Back Space             | 2    |
|                              | 4-236T-06000  | Plug, 8P                                  | 2    |
|                              | 4-236T-06100  | Plug, 5P                                  | 1    |
|                              | 4-253R-10100  | Choke Coil 100μH                          | 1    |
| L1                           |               | Transistor 2SC945                         | 3    |
| Q5,6,7                       |               | SCR 1RC10 or 2 PIN                        | 2    |
| SCR1,2                       |               | Diode 10DRV                               | 4    |
| D2,3,4,5                     |               | Diode 10D2                                | 2    |
| D6,7                         |               | Rectifier DS131 or 10DC1                  | 1    |
| D8                           |               | Rectifier DS17 or DS131                   | 1    |
| D9                           |               |                                           |      |
| <b>RESISTORS</b>             |               |                                           |      |
| R22                          |               | Carbon 6.8Ω ±10% 1/4W                     | 1    |
| R14,15                       |               | Carbon 560 Ω ±10% 1/4W                    | 2    |
| R13,23                       |               | Carbon 1KΩ ±10% 1/4W                      | 3    |
| 25                           |               |                                           |      |
| R19                          |               | Carbon 1KΩ ±10% 1/2W                      | 1    |
| R21                          |               | Carbon 1.5KΩ ±10% 1/4W                    | 1    |
| R24,26                       |               | Carbon 3.9KΩ ±10% 1/4W                    | 2    |
| R20                          |               | Carbon 4.7KΩ ±10% 1/4W                    | 1    |
| R17                          |               | Carbon 6.8KΩ ±10% 1/4W                    | 1    |
| R12                          |               | Carbon 22KΩ ±10% 1/4W                     | 1    |
| R16                          |               | Carbon 27KΩ ±10% 1/4W                     | 1    |
| R18                          |               | Carbon 220KΩ ±10% 1/4W                    | 1    |

# PARTS LIST

| Key No.                                                                                                                                                                                 | Part No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Q'ty                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MECHANISM P.C.B ASSY                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                  |
| C16,24<br>C15,17<br>C11,12<br>C14<br>C22<br>C13<br>C23<br>C18<br>C10                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CAPACITORS<br>Electrolytic 1 $\mu$ F 50WV<br>Electrolytic 22 $\mu$ F 16WV<br>Electrolytic 33 $\mu$ F 25WV<br>Electrolytic 47 $\mu$ F 10WV<br>Electrolytic 100 $\mu$ F 16WV<br>Electrolytic 100 $\mu$ F 25WV<br>Electrolytic 220 $\mu$ F 16WV<br>Electrolytic 470 $\mu$ F 16WV<br>Mylar 0.033 $\mu$ F $\pm$ 20% 50WV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1                                                                                                                        |
| LED P.C.B. ASSY                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                  |
| D10<br>D11<br>R29                                                                                                                                                                       | 4-226T-68599                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Printed Circuit Board Assembly, LED<br>LED SLP224B<br>Diode 1S188 AM<br>Carbon 150 $\Omega$ $\pm$ 10% 1/4W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1<br>1<br>1<br>1                                                                                                                                                 |
| SCREW MOUNTING                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                  |
|                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pan Head Screw 2 x 4 mm<br>Pan Head Screw 3 x 4 mm<br>Pan Head Screw 3 x 6 mm<br>Pan Head Screw 3 x 25 mm<br>Plat Head Screw 2 x 6 mm<br>Oval Head Screw 2 x 4 mm<br>Tapping Screw 3 x 4 mm<br>Tapping Screw 3 x 6 mm<br>Tapping Screw 3 x 8 mm<br>Tapping Screw 3 x 12 mm<br>Nut 4 mm<br>Square Nut 2 mm<br>Speed Nut 2 mm<br>Washer 3.3 x 10 x 1 mm<br>Washer 3.3 x 13 x 1 mm<br>Spring Washer 4 mm<br>External Tooth Lock Washer 3 mm<br>Pan Head Screw w/Washer 3 x 6<br>Tapping Screw w/Washer 3 x 6<br>Tapping Screw w/Washer 3 x 8                                                                                                                                                                                                                                                                                                                 | 1<br>1<br>20<br>2<br>1<br>1<br>1<br>17<br>3<br>5<br>2<br>1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2                                                               |
| MECHANISM                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                  |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>13<br><br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>34<br>32<br>33 | 141-0-311T-01600<br>141-0-312T-00500<br>141-2-811T-02600<br>141-2-683T-22500<br>141-2-564T-10800<br>141-2-853T-30200<br>141-2-731T-22500<br>141-2-852T-22500<br>141-0-741T-06800<br>141-2-462T-27100<br>4-231T-11903<br><br>141-2-751T-52900<br>141-2-751T-56500<br>141-2-365T-19400<br>4-231T-37000<br>4-231T-11902<br>141-2-365T-19500<br>141-2-327T-07600<br>141-2-365T-19300<br>141-2-457T-06100<br>141-2-365T-24100<br>141-2-564T-10700<br>4-231T-20401<br>141-0-521T-02600<br>141-0-573T-00700<br>141-2-411T-02601<br>141-0-524T-01900<br>141-0-741T-06900<br>141-0-661T-01099<br>141-2-851T-56100<br>141-0-741T-07000<br>141-2-462T-27200 | Chassis Assembly<br>Sub Chassis Assembly<br>Counter, Tape<br>Ring, Counter, Mtg.<br>Square Belt, Counter Drive<br>Spring Plate, Cassette Pressure<br>Slide, Brake<br>Spring Wire, Brake Pressure<br>Lever Assembly, Brake Operation<br>Boss, Lever Fulcrum<br>Micro Switch, Power & Play Changing<br>Lever, FWD Operation<br>Shaft, Lever Mtg.<br>Bracket, SW Mtg<br>Switch, Play & Rew<br>Micro Switch, Stop<br>Bracket, Rew Switch<br>Insulator, Stop Switch Mtg.<br>Bracket, Play Changing Switch<br>Special Washer, Prevent Oil<br>Bracket, Power Switch Mtg.<br>Square Belt, Main Belt<br>Switch, Fwd<br>Flywheel Assembly<br>Bearing Assembly, Flywheel<br>Special Nut, Bearing Mtg.<br>Bracket Assembly, Flywheel<br>Lever Assembly, FWD Roller<br>Pulley Assembly, FWD<br>Spring Coil, Slide Returning<br>Lever Assembly, FWD<br>Boss, Lever Mtg. | 1<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>2<br>3<br><br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |

| Key No.                | Part No.                             | Description                           | Q'ty |
|------------------------|--------------------------------------|---------------------------------------|------|
| <b>MECHANISM</b>       |                                      |                                       |      |
| 35                     | 141-0-741T-07100                     | Lever Assembly, REW Roller            | 1    |
| 36                     | 141-0-662T-00500                     | Roller Assembly, REW                  | 1    |
| 37                     | 4-264T-03900                         | Solenoid, REW                         | 1    |
| 38                     | 141-2-851T-62800                     | Spring Coil, Solenoid                 | 1    |
| 39                     |                                      | Spring Pin 3 x 8 mm, Lever Operation  | 1    |
| 40                     | 141-0-741T-13400                     | Lever Assembly, REW, FWD Operation    | 1    |
| 41                     | 141-2-365T-19600                     | Bracket, REW Select Switch Mtg.       | 1    |
| 42                     | 141-2-474T-06000                     | Bracket, REW Operation                | 1    |
| 43                     | 141-2-741T-53300                     | Lever, REW Operation                  | 1    |
| 44                     | 141-2-851T-66600                     | Spring Coil, Lever Returning          | 1    |
| 46                     | 141-2-731T-23100                     | Slide, REW Operation                  | 1    |
| 47                     | 141-2-462T-27400                     | Boss, Slide Guide                     | 1    |
| 48                     | 141-2-445T-14100                     | Cushion, Slide Protector              | 1    |
| 49                     | 141-2-851T-46000                     | Spring Coil, Slide Returning          | 1    |
| 50                     | 141-0-747T-00700                     | Bracket Assembly, FWD Operation Lever | 1    |
| 51                     | 141-0-741T-08600                     | Lever Assembly, FWD Operation         | 1    |
| 52                     | 141-2-851T-66700                     | Spring Coil, Slide Pressure           | 1    |
| 53                     | 141-2-851T-41000                     | Spring Coil, Lever Returning          | 1    |
| 54                     | 141-2-851T-30900                     | Spring Coil, REW Roller Returning     | 1    |
| 55                     | 141-0-731T-05201                     | Slide Assembly, Head Slide            | 1    |
| 56                     |                                      | Steel Ball 1/8", Slide Base           | 5    |
| 57                     | 141-2-683T-22600                     | Ring, Slide Guide                     | 2    |
| 58                     | 141-0-545T-00100                     | Pinch Roller Lever Assembly           | 1    |
| 59                     | 141-2-851T-66900                     | Spring Coil, Pinch Roller             | 1    |
| 60                     | 141-2-461T-07900                     | Pipe, Play Head                       | 1    |
| 61                     | 141-2-851T-54500                     | Spring Coil, Play Head Mtg.           | 1    |
| 62                     | 4-242T-12000                         | Play Head                             | 1    |
| 63                     | 141-2-821T-09600                     | Tape Guide, Erase Head Dammy          | 1    |
| 64                     | 141-2-851T-75000                     | Spring Coil, REW Pressure             | 1    |
| 65                     | 141-2-741T-64000                     | Lever, REW Pressure                   | 1    |
| 66                     | 141-2-462T-31900                     | Boss, Lever Mtg.                      | 1    |
| 67                     | 141-2-363T-03100                     | Bracket, Capacitor Mtg.               | 1    |
| 68                     | 141-2-472T-01000                     | Lug, Lead Retainer                    | 5    |
| 69                     |                                      | Steel Ball 2 mm                       | 2    |
| 70                     | 141-2-853T-30300                     | Spring Plate, Head Slide Pressure     | 1    |
| 71                     | 141-2-853T-30301                     | Spring Plate, Head Slide Pressure     | 1    |
| 72                     | 141-2-472T-02200                     | Lug, Head Lead                        | 1    |
| 79                     | 141-2-731T-23300                     | Slide, Brake Operation                | 1    |
| 80                     | 141-2-853T-30700                     | Spring Plate, Head Slide Operation    | 1    |
| 81                     | 4-264T-03700                         | Solenoid, PLAY                        | 1    |
| 82                     | 141-0-741T-07300                     | Lever Assembly, Take Up Lever         | 1    |
| 83                     | 141-2-661T-17201 or 141-2-661T-17202 | Pulley, Take Up                       | 1    |
| 84                     | 141-2-851T-77900                     | Spring Coil, Pressure                 | 1    |
| 85                     | 141-2-858T-02000                     | Bracket, Spring                       | 1    |
| 86                     | 141-2-851T-52500                     | Spring Coil, Slide Returning          | 1    |
| 87                     | 141-2-853T-34100                     | Spring Plate, Head Slide Operation    | 1    |
| 88                     | 141-2-851T-67000                     | Spring Coil, Lever Pressure           | 1    |
| 89                     | 141-2-751T-57800                     | Shaft, Play Solenoid Connect          | 1    |
| 90                     | 141-0-535T-00700                     | Bracket Assembly, Reel                | 1    |
| 91                     | 141-0-531T-01800                     | Reel Plate Assembly, Right            | 1    |
| 92                     | 141-0-531T-01900                     | Reel Plate Assembly, Left             | 1    |
| 93                     | 147-2-764T-00401                     | Brush, Detector                       | 1    |
| 94                     | 141-2-135T-26400                     | Detector Cover                        | 1    |
| 95                     | 4-527T-06100                         | DC Motor W/PCB                        | 1    |
| 96                     | 141-0-047T-00100                     | Motor Pulley Assembly                 | 1    |
| 97                     | 141-2-378T-05700                     | Bracket, Motor Mtg.                   | 1    |
| 98                     | 141-2-445T-13300                     | Rubber Cushion, Motor Mtg.            | 2    |
| 99                     | 141-2-421T-08300                     | Special Screw, Motor Mtg.             | 2    |
| 100                    | 141-2-377T-11700                     | Bracket, Motor P.C.B. Mtg.            | 1    |
| 101                    | 123-2-472R-00400                     | Lug, Motor Earth                      | 1    |
| <b>MECHANISM SCREW</b> |                                      |                                       |      |
| Y1                     |                                      | Pan Head Screw 2 x 4 mm               | 1    |
| Y2                     |                                      | Pan Head Screw 2 x 5 mm               | 1    |
| Y3                     |                                      | Pan Head Screw 2 x 6 mm               | 1    |
| Y4                     |                                      | Pan Head Screw 2 x 10 mm              | 1    |
| Y5                     |                                      | Pan Head Screw 2 x 14 mm              | 1    |
| Y6                     |                                      | Pan Head Screw 2.3 x 8 mm             | 2    |
| Y7                     |                                      | Pan Head Screw 2.3 x 14 mm            | 2    |
| Y8                     |                                      | Pan Head Screw 2.6 x 4 mm             | 1    |
| Y9                     |                                      | Pan Head Screw 2.6 x 5 mm             | 18   |
| Y10                    |                                      | Pan Head Screw 2.6 x 6 mm             | 1    |
| Y11                    |                                      | Pan Head Screw 2.6 x 8 mm             | 5    |
| Y12                    |                                      | Pan Head Screw 2.6 x 10 mm            | 2    |
| Y13                    |                                      | Pan Head Screw 2.6 x 12 mm            | 1    |

# EXPLODED VIEW

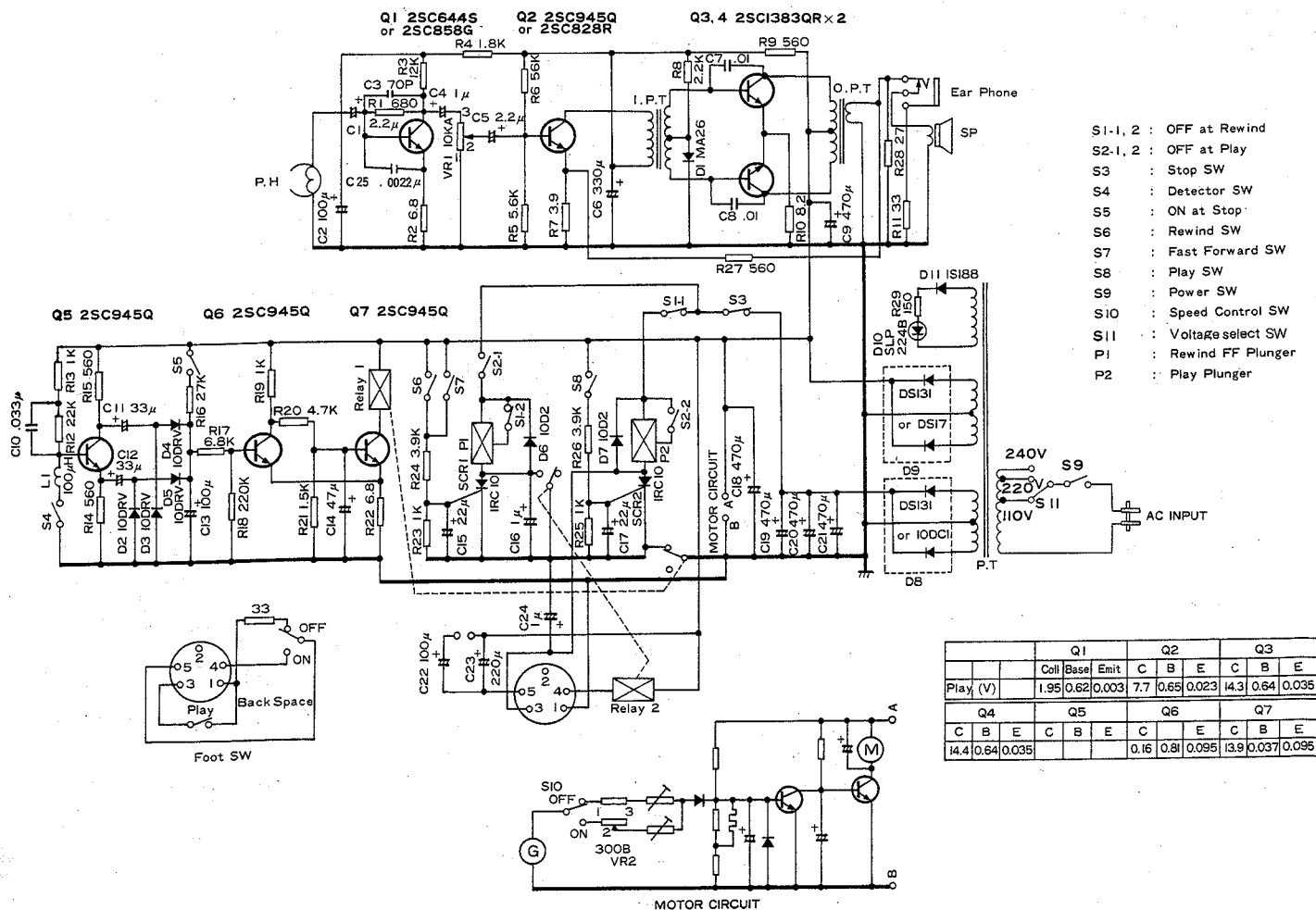


# PARTS LIST

| Key No.                | Part No. | Description                | Q'ty |
|------------------------|----------|----------------------------|------|
| <b>MECHANISM SCREW</b> |          |                            |      |
| Y14                    |          | Pan Head Screw 2.6 x 14 mm | 1    |
| Y15                    |          | Pan Head Screw 3 x 4 mm    | 2    |
| Y16                    |          | Pan Head Screw 3 x 6 mm    | 10   |
| Y17                    |          | Pan Head Screw 3 x 10 mm   | 2    |
| Y18                    |          | Flat Head Screw 2.6 x 6 mm | 2    |
| Y19                    |          | Flat Head Screw 2.6 x 8 mm | 1    |
| Y20                    |          | Tapping Screw 3 x 4 mm     | 3    |
| Y21                    |          | Tapping Screw 3 x 6 mm     | 9    |
| Y22                    |          | Nut 2 mm                   | 1    |
| Y23                    |          | Nut 2.3 mm                 | 2    |
| Y24                    |          | Nut 2.6 mm                 | 1    |
| Y25                    |          | Washer 3 mm                | 3    |
| Y26                    |          | Washer 2.6 x 7.5 x 0.5 mm  | 6    |
| Y27                    |          | Washer 3 x 8 x 0.5 mm      | 2    |
| Y28                    |          | Washer 3 x 8 x 1 mm        | 2    |
| Y29                    |          | Washer 3 x 13 x 1 mm       | 1    |
| Y30                    |          | Spring Washer 2 mm         | 2    |

| Key No.                | Part No. | Description                             | Q'ty |
|------------------------|----------|-----------------------------------------|------|
| <b>MECHANISM SCREW</b> |          |                                         |      |
| Y31                    |          | Internal Tooth Lock Washer 2.6 mm       | 1    |
| Y32                    |          | External "E" Ring 1.5 mm                | 7    |
| Y33                    |          | External "E" Ring 1.9 mm                | 1    |
| Y34                    |          | External "E" Ring 2.3 mm                | 4    |
| Y35                    |          | Graphite Nylon Washer 2 x 4 x 0.13 mm   | 2    |
| Y36                    |          | Graphite Nylon Washer 2 x 4 x 0.25 mm   | 4    |
| Y37                    |          | Graphite Nylon Washer 2 x 4 x 0.5 mm    | 3    |
| Y38                    |          | Graphite Nylon Washer 3 x 5.5 x 0.25 mm | 1    |
| Y39                    |          | Graphite Nylon Washer 3 x 6 x 0.5 mm    | 1    |
| Y40                    |          | Stopper Ring 2 mm                       | 1    |
| Y41                    |          | Stopper Ring 3 mm                       | 1    |
| Y42                    |          | Pan Head Screw 2.3 x 16 mm              | 2    |
| Y43                    |          | External "E" Ring 3 mm                  | 1    |
| Y44                    |          | Graphite Nylon Washer 4 x 7.5 x 0.13 mm | 1    |

# SCHEMATIC DIAGRAM



### WIRING DIAGRAM.

